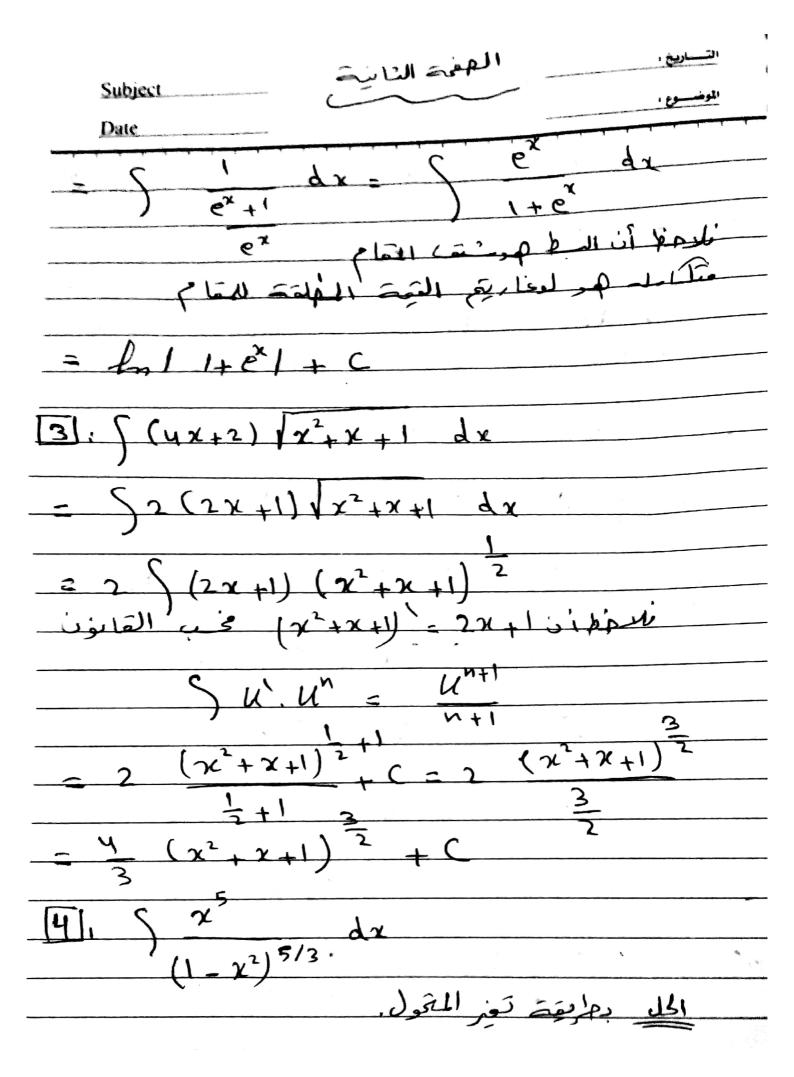
التاريخ، المغنى الثول <u>Date</u>
((حياتا و الوظيمة) عند الما الما الما الما الما الما الما الم
1. I = S(1-x2) - Inx dx
$ \Pi: T = S(1-x^2) - \ln x dx $ $ = \text{Signity dolffly primity} $ $ \text{Coloring to } dx = 1 dx = 1 \text{cap'pl} $ $ V = x x^3 = dy = 1 - x^2 $
= U.12 Ste dy.
$=\left(x-\frac{\chi^{3}}{3}\right)\ln x - S\left(x-\frac{\chi^{3}}{3}\right)\frac{1}{\chi} dx$
$=\left(x-\frac{\chi^{3}}{3}\right)\ln\chi \qquad \left(\frac{\chi^{1}}{\chi}-\frac{\chi^{3}}{3}\right)d\chi$
$= \left(x - \frac{\chi^3}{3}\right) \ln x - \left(1 - \frac{\chi^2}{3}\right) d\chi$
$= \left(x + \frac{\chi^3}{3}\right) \ln x \qquad \left(1 + \frac{1}{3}\right) \chi^2 dx$
$-(x-x^3)\ln x - x + 1 + x^3 + C$
$= (x - \frac{x^3}{3}) - \ln x - x + \frac{1}{9} x^3 + C$
$\overline{[2]: T=S \frac{1}{1+\overline{e}^{2}} dx = S \frac{1}{1+\overline{\frac{1}{e^{2}}}} dx$



	العفى الثالث	التــاريخ ،
Subject		الموضوع ،
Date $\frac{\Delta t}{x^2} = 1 - t = 0$	$\frac{dx}{2} = \sqrt{1-t} \lim_{x \to \infty} \frac{dx}{2}$	فرمت عـ ا
SI= 5 2	$\frac{(t)^{5/3}}{(t)^{5/3}}$	فهزب ولئے عا
= 1 2	$\frac{\chi'(-2\chi)}{(t)^{5/3}} dt = -\frac{1}{2}$	2x dx 01dis
$=\frac{1}{2}\left(\frac{1}{t}\right)$	4) ² d +	
	1-2t+t2 d1 ±5/3	
= - 1 2	$\frac{1}{t^{5/3}}$ $\frac{1}{t^{5/3}}$ $\frac{1}{t^{5/3}}$	1 t dt
= 125	t-5/3 dt-2 5 t	13 dt + 5 + 3 dt
= 1	$\frac{t}{-2/3}$ $\frac{1}{3}$	$\frac{4/3}{4}$

Date	المفت الرابعة	التساريخ ا الموضــوع ا
(5): T = S dx= 9. Sht dt	$\sqrt{x^2 q^2} dx$ $\in x = a.cht$	بغرمت
T= 5 \ a	2 ch²t - 92 a. Sh t	
	chit 1) a. Sht	
$= \frac{1}{2} \sqrt{a^2}$ $= \frac{1}{2} \sqrt{a^2}$ $= \frac{1}{2} \sqrt{a^2}$ $= \frac{1}{2} \sqrt{a^2}$	$\frac{5h^2t}{2} = \frac{3h^2t}{1}$	dt ii cep
= \ a, s	sht, a, sht dt =	as Ishat 9t
= a2 \ \	$\frac{-ch2t}{2} dt - q^2$	$\int \frac{1}{2} \frac{\text{chit}}{2} dx$
- q ²	(1 - chit) dt	,
= 92 \$ (1	$t - \frac{sh2t}{2} + c$	<u> </u>
	x=2Sinx Cosx = 2 Sht cht	ونعلم ات
=> Sh2t	= shtcht	

الجفخ الخامسة Subject sht cht $\frac{a^2}{2} \frac{a \times c \cdot s \cdot h \times x}{a} \frac{a^2}{2} \frac{\chi}{a} \sqrt{\frac{\chi}{a}^2 \cdot i + C}$ $\frac{a^2}{2} \text{ avc sh} \frac{\chi}{a} = \frac{a^2}{2} \frac{\chi}{a} \sqrt{\frac{\chi^2 - a^2}{a^2}} + \frac{a^2}{2} \sqrt{\frac{x^2 - a^2}{a^2}}$ $= \frac{a^2}{2} \operatorname{arc} \operatorname{Sh} \frac{\chi}{a} = \frac{1}{2} \frac{\alpha^2}{\alpha^2} \frac{\chi}{\alpha} \frac{1}{\alpha}$ $\frac{-1}{2} \frac{a^2}{a^2} \frac{a^2}{a^2} = \frac{1}{2} \frac{x}{a^2} \frac{\sqrt{x^2} - a^2}{a^2}$ 3 T = S sint 2 t dt = 2

du = dt & u=t ippe c-st & dv= Sint dt V= cost € 9 T = 2 T = 2 S sin++d+ I = cost t S grand cost dt = - Cost.t + Sint + C D I = 2 (05 t, t + 2 Sint + C = 2 COS VX. VX + 2 Sin Vx + C [7]. I = S E Sin2x dx Sin2x=2 Sinx Cosx Wi doe => t - 2 \ e \ Sinx (osx dx

\frac{1}{2} \ \ dt = cosx dx & sinx=t ipje رغو م ف